

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458117

Luminaire Tested: **GALN-SA9C-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47745 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

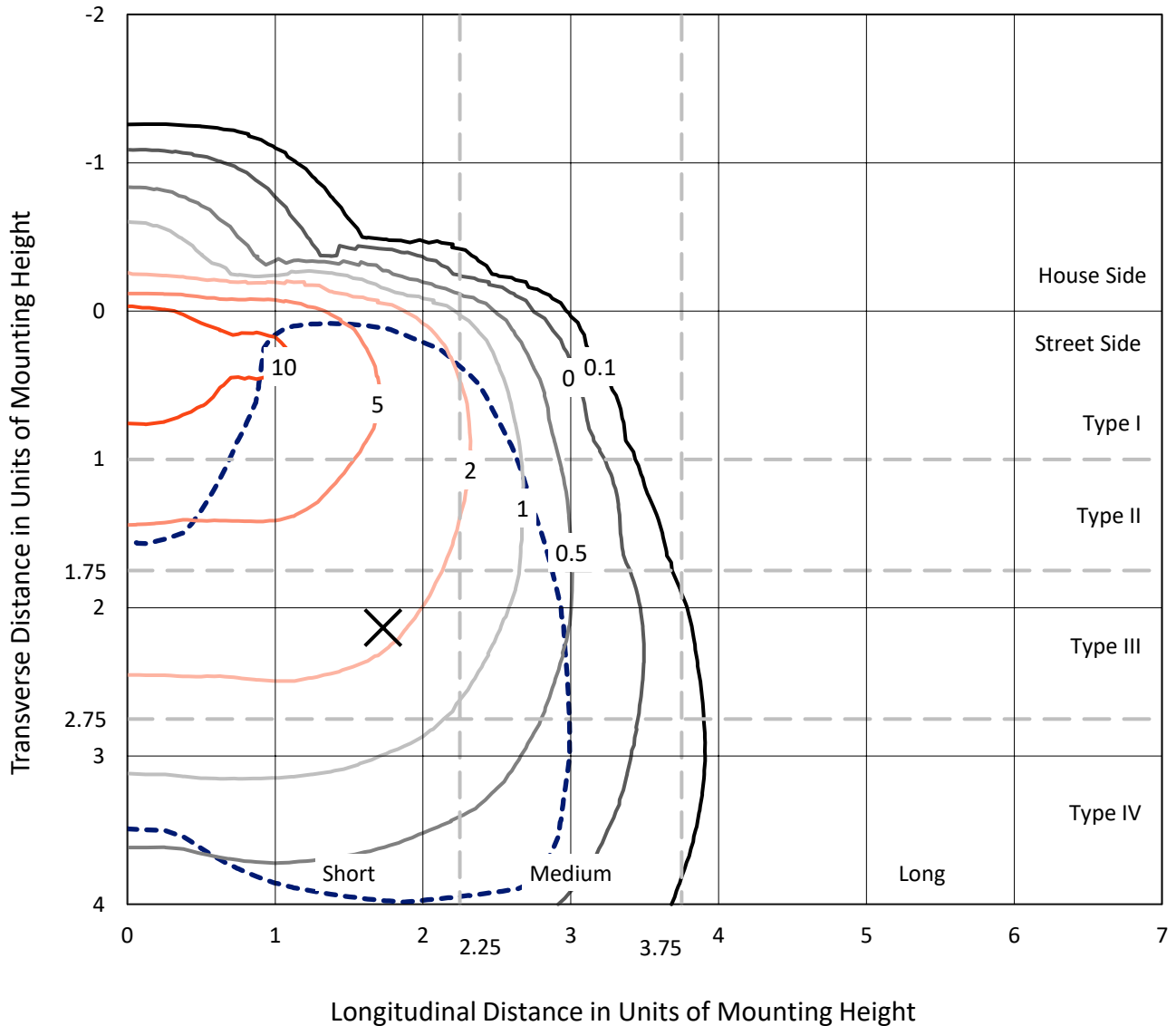
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

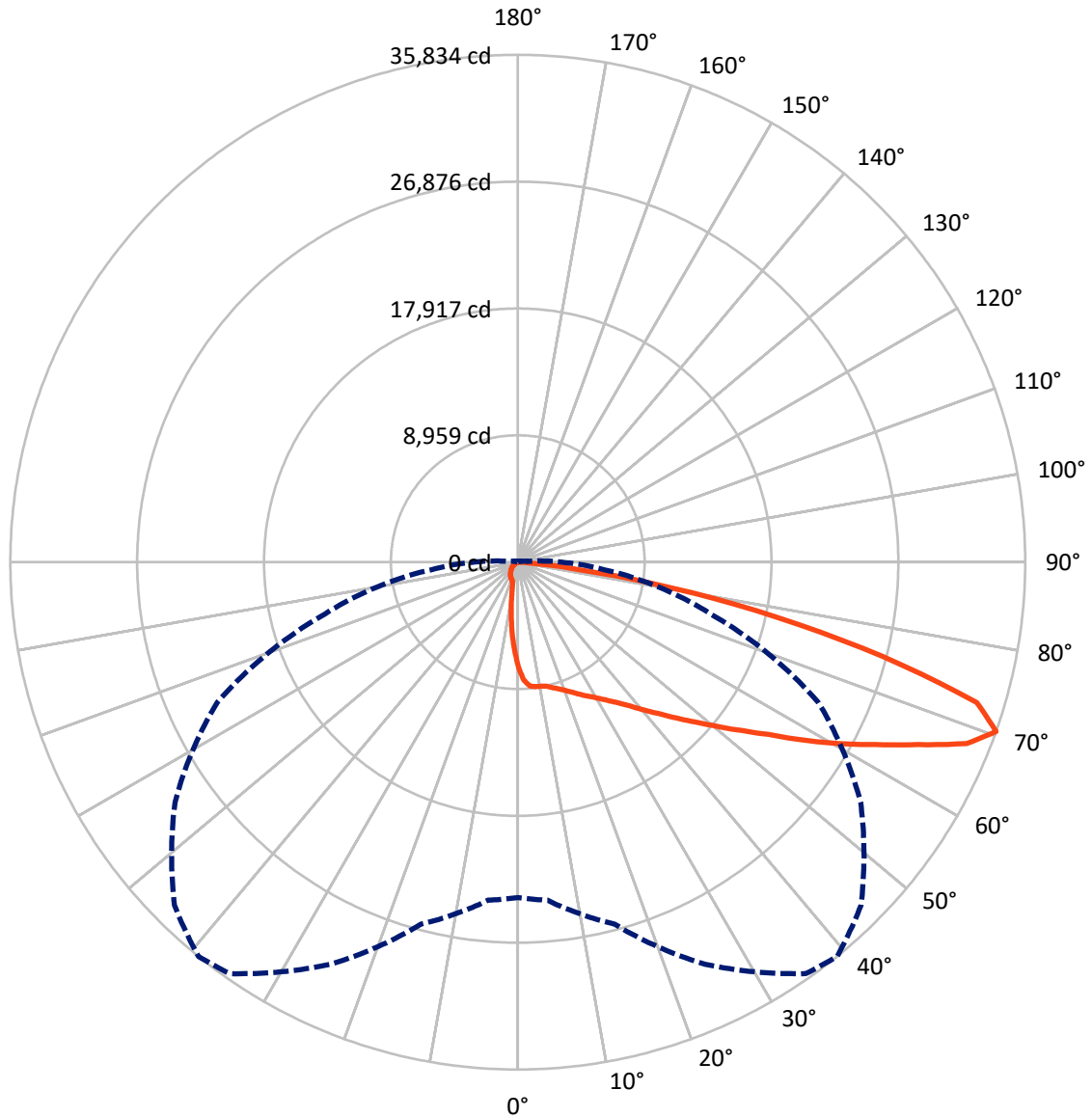
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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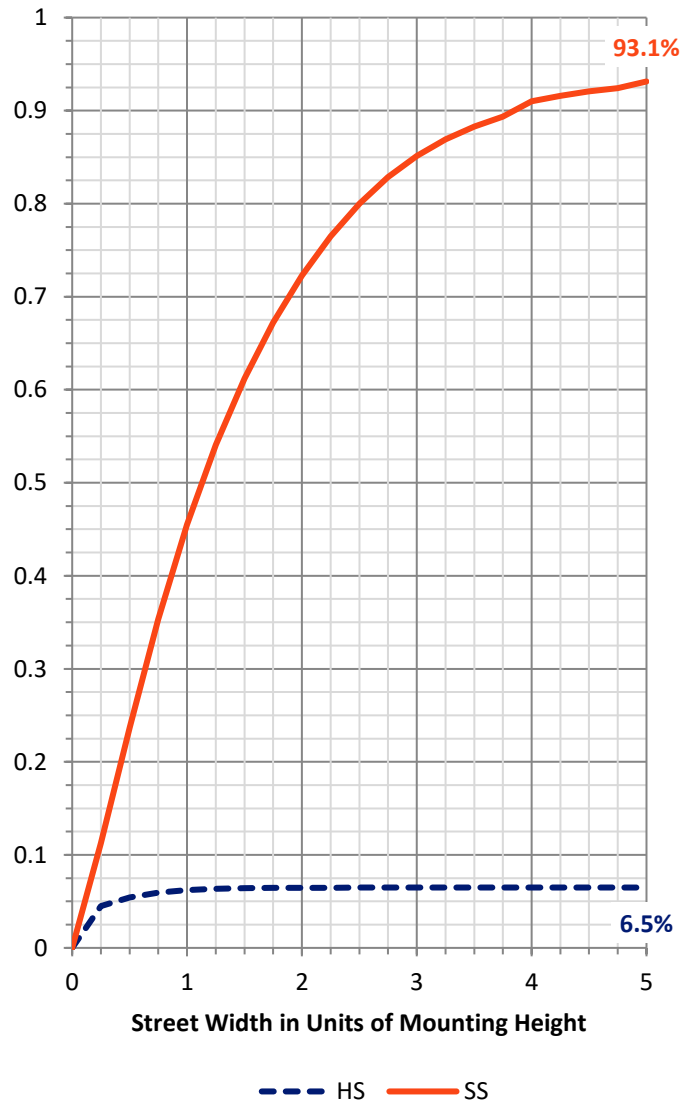
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3113.2	0.0	3113.2
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	44631.8	0.0	44631.8
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	47745.0	0.0	47745.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.4	1.3
10°-20°	1651.3	3.5
20°-30°	2766.3	5.8
30°-40°	4290.3	9.0
40°-50°	6798.8	14.2
50°-60°	9966.0	20.9
60°-70°	12774.0	26.8
70°-80°	8026.8	16.8
80°-90°	836.2	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47745.0	100.0
0°-180°	47745.0	100.0

**Coefficient of Utilization**



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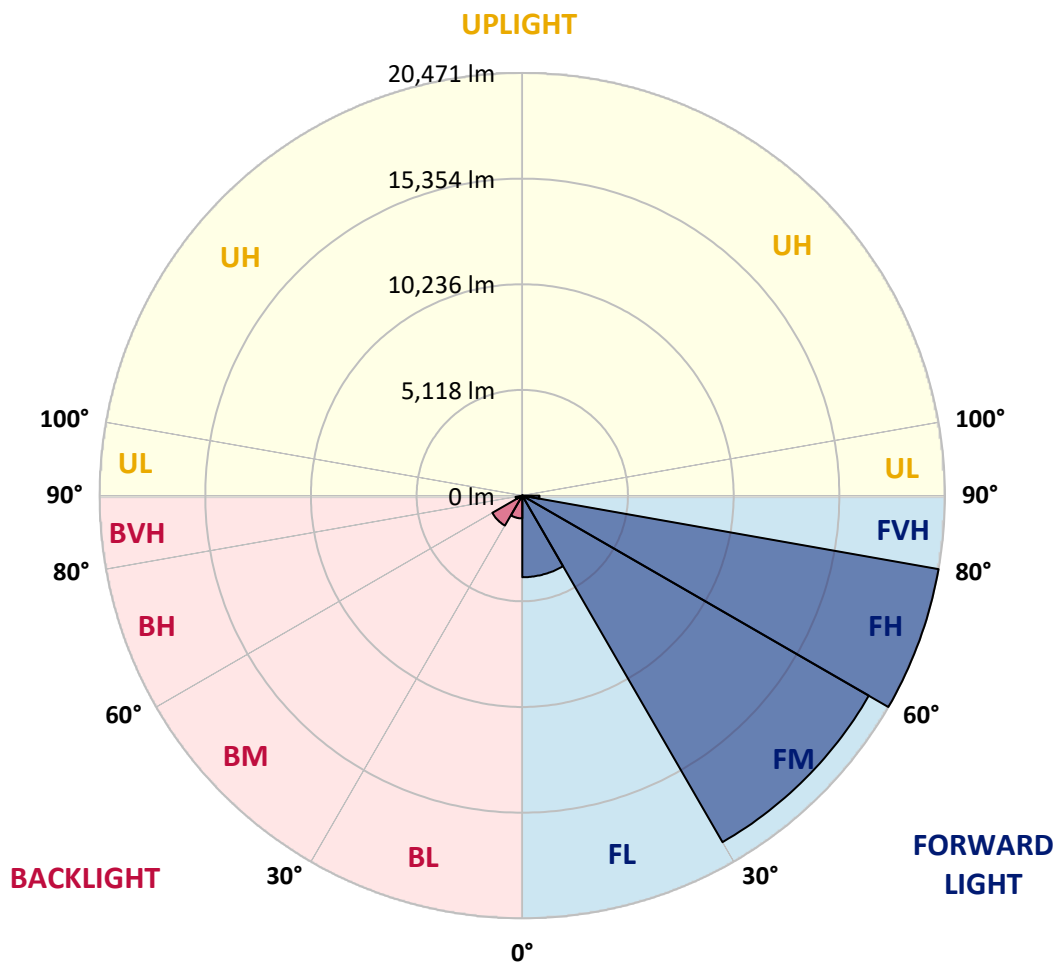
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3950.7	8.3			
FM	(30°-60°)	19379.6	40.6			
FH	(60°-80°)	20471.5	42.9			G5
FVH	(80°-90°)	830.0	1.7			G5
BL	(0°-30°)	1102.4	2.3	B3/2500		
BM	(30°-60°)	1675.4	3.5	B2/2500		
BH	(60°-80°)	329.2	0.7	B1/500		G1/500
BVH	(80°-90°)	6.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9
2.5°	8608.1	8579.2	8540.7	8495.8	8367.5	8345.0	8268.0	8104.4	7908.7	7748.2	7526.9
5°	9015.5	9031.6	9002.7	8922.5	8829.5	8774.9	8678.7	8425.2	8171.7	7847.7	7485.1
7.5°	9108.6	9140.7	9105.4	9028.4	8938.5	8880.8	8803.8	8585.6	8290.5	7921.5	7424.2
10°	9099.0	9137.5	9115.0	9044.4	8970.6	8916.1	8832.7	8659.4	8422.0	8033.8	7443.4
12.5°	9082.9	9134.3	9131.0	9095.8	9034.8	8993.1	8941.8	8787.8	8566.4	8197.4	7549.3
15°	9038.0	9102.2	9159.9	9188.8	9192.0	9192.0	9127.8	8964.2	8752.5	8412.4	7687.3
17.5°	9057.3	9131.0	9275.4	9358.8	9416.6	9410.2	9342.8	9166.3	8932.1	8633.7	7831.7
20°	9176.0	9275.4	9477.6	9644.4	9702.1	9682.9	9593.1	9387.7	9121.4	8823.0	7972.8
22.5°	9467.9	9557.8	9811.2	10006.9	10048.6	9997.3	9869.0	9589.8	9349.2	9028.4	8142.9
25°	9904.3	10010.1	10244.4	10391.9	10391.9	10363.1	10183.4	9856.1	9605.9	9313.9	8364.2
27.5°	10433.7	10523.5	10754.5	10886.0	10809.0	10725.6	10545.9	10151.3	9910.7	9673.3	8630.5
30°	10969.5	11027.2	11271.0	11328.8	11248.6	11142.7	10950.2	10555.6	10343.8	10160.9	9015.5
32.5°	11476.4	11601.5	11803.6	11790.8	11681.7	11630.4	11453.9	11033.6	10914.9	10895.7	9554.6
35°	11983.3	12079.5	12259.2	12304.1	12207.9	12198.3	12069.9	11758.7	11761.9	11887.0	10395.2
37.5°	12419.6	12506.3	12718.0	12817.5	12836.7	12884.9	12833.5	12628.2	12920.1	13263.4	11508.5
40°	12785.4	12907.3	13176.8	13350.1	13549.0	13725.4	13735.1	13780.0	14367.1	14957.5	12961.9
42.5°	13070.9	13241.0	13632.4	13953.2	14408.8	14633.4	14813.1	15060.1	16048.3	16930.6	14675.1
45°	13443.1	13638.8	14126.5	14630.2	15342.5	15711.4	15961.7	16622.6	18024.7	19227.8	16433.3
47.5°	14059.1	14161.8	14659.1	15393.8	16330.7	16856.8	17344.5	18345.5	20145.4	21223.4	17896.3
50°	14851.6	14919.0	15294.3	16314.6	17527.4	18220.4	19109.1	20286.6	22346.4	22879.0	18724.1
52.5°	15727.5	15749.9	16032.3	17328.5	18868.5	19741.2	20735.8	22189.2	24139.8	24059.6	19272.7
55°	16744.5	16712.4	16953.1	18428.9	20456.6	21454.4	22612.7	24136.6	25695.9	24897.0	19587.2
57.5°	17909.2	17822.5	18056.8	19888.7	22490.7	23684.3	24861.7	25817.8	26902.3	25599.7	19738.0
60°	19128.4	18955.1	19234.2	21528.2	24887.4	26020.0	26998.5	27255.2	28172.8	26157.9	19478.1
62.5°	20100.5	20103.7	20623.5	23273.6	27351.4	28342.8	28862.6	29093.6	29266.8	26036.0	18111.3
65°	21618.1	21669.4	22500.4	25695.9	30203.7	31063.5	31419.7	30668.9	29315.0	24521.6	16057.9
67.5°	23183.8	23347.4	24868.2	29032.6	33498.7	34191.7	33732.9	30973.7	28005.9	21066.2	12175.8
70°	23693.9	23963.4	26469.1	31329.8	35475.1	35834.4	34281.5	29552.4	23411.5	14084.8	6128.0
72.5°	21711.1	22147.4	25548.3	30492.4	34214.2	33902.9	30672.1	24784.7	14883.7	5348.4	1870.5
75°	15310.4	15502.9	21233.1	25294.9	27518.3	26636.0	23331.3	15977.7	6121.6	1501.5	641.7
77.5°	7905.4	7812.4	12628.2	16783.0	19625.7	18711.3	15278.3	8271.2	2319.7	625.6	397.8
80°	4087.5	4154.9	5463.9	8794.2	11980.1	11024.0	8146.1	3834.0	1235.2	346.5	304.8
82.5°	2290.8	2149.6	3141.0	3840.4	5601.8	4392.3	3125.0	2714.3	539.0	208.5	288.8
85°	417.1	436.3	1722.9	2075.8	1944.3	1235.2	1007.4	1812.7	157.2	115.5	202.1
87.5°	6.4	6.4	333.7	596.8	378.6	173.3	317.6	259.9	32.1	44.9	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9	7449.9
2.5°	7414.6	7292.6	7064.9	6840.3	6554.7	6320.5	6163.3	5999.7	5832.8	5845.7	5884.2
5°	7286.2	7074.5	6625.3	6150.5	5694.9	5284.2	4879.9	4517.4	4369.8	4235.1	4241.5
7.5°	7157.9	6859.5	6201.8	5457.5	4767.7	4068.2	3561.3	3144.2	2922.8	2756.0	2707.9
10°	7100.1	6705.5	5813.6	4790.1	3811.6	3048.0	2396.7	2056.6	1793.5	1710.1	1732.5
12.5°	7125.8	6628.5	5463.9	4186.9	3022.3	2123.9	1668.4	1495.1	1437.4	1427.7	1421.3
15°	7173.9	6574.0	5120.6	3519.6	2220.2	1578.5	1402.1	1370.0	1363.6	1357.1	1360.4
17.5°	7238.1	6525.8	4754.8	2894.0	1703.6	1379.6	1328.3	1312.2	1309.0	1309.0	1309.0
20°	7302.3	6471.3	4347.4	2335.7	1421.3	1302.6	1270.5	1260.9	1257.7	1257.7	1254.5
22.5°	7376.1	6423.2	3933.5	1835.2	1309.0	1248.1	1219.2	1212.8	1209.6	1206.4	1206.4
25°	7481.9	6362.2	3493.9	1501.5	1238.4	1196.7	1167.9	1161.4	1158.2	1145.4	1148.6
27.5°	7623.1	6317.3	3041.5	1296.2	1174.3	1132.6	1113.3	1103.7	1097.3	1087.6	1090.8
30°	7815.6	6278.8	2560.3	1183.9	1100.5	1065.2	1045.9	1039.5	1033.1	1023.5	1023.5
32.5°	8149.3	6294.8	2053.4	1094.1	1033.1	991.4	972.1	965.7	959.3	949.7	949.7
35°	8649.8	6387.9	1642.7	1017.1	952.9	911.2	891.9	891.9	882.3	869.5	866.3
37.5°	9467.9	6625.3	1318.6	943.3	875.9	837.4	814.9	808.5	798.9	779.6	776.4
40°	10433.7	6994.3	1110.1	869.5	805.3	766.8	747.6	728.3	702.6	683.4	680.2
42.5°	11646.4	7372.9	962.5	795.7	737.9	702.6	680.2	648.1	609.6	583.9	580.7
45°	12910.5	7719.4	863.1	728.3	673.8	644.9	619.2	567.9	519.8	487.7	484.5
47.5°	13853.8	7783.5	782.8	664.1	619.2	590.3	555.0	490.9	426.7	397.8	388.2
50°	14299.7	7472.3	699.4	600.0	564.7	532.6	487.7	413.9	343.3	308.0	301.6
52.5°	14457.0	6933.3	632.1	542.2	510.1	471.6	417.1	333.7	269.5	234.2	231.0
55°	14392.8	6253.1	571.1	487.7	446.0	401.0	346.5	266.3	198.9	170.0	163.6
57.5°	14055.9	5386.9	510.1	433.1	381.8	336.9	275.9	198.9	134.8	109.1	105.9
60°	13147.9	4206.2	449.2	372.2	324.0	275.9	218.2	141.2	83.4	61.0	61.0
62.5°	11614.3	3121.8	391.4	311.2	272.7	221.4	154.0	89.8	44.9	32.1	28.9
65°	9705.3	2303.6	327.3	263.1	227.8	173.3	109.1	54.5	22.5	9.6	6.4
67.5°	6772.9	1421.3	272.7	215.0	186.1	125.1	67.4	22.5	9.6	0.0	0.0
70°	3076.8	677.0	208.5	163.6	141.2	89.8	35.3	12.8	6.4	0.0	0.0
72.5°	956.1	356.1	147.6	118.7	96.3	57.8	19.3	9.6	6.4	0.0	0.0
75°	442.8	227.8	93.0	64.2	54.5	28.9	12.8	6.4	3.2	0.0	0.0
77.5°	330.5	176.5	54.5	35.3	28.9	19.3	9.6	6.4	3.2	0.0	0.0
80°	288.8	89.8	32.1	22.5	16.0	12.8	6.4	3.2	0.0	0.0	0.0
82.5°	259.9	44.9	19.3	12.8	9.6	6.4	3.2	3.2	0.0	0.0	0.0
85°	141.2	25.7	12.8	9.6	6.4	3.2	3.2	0.0	0.0	0.0	0.0
87.5°	25.7	12.8	9.6	6.4	6.4	3.2	3.2	3.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)